

**What the invention claimed is:**

1. An auxiliary wheel rim comprising:  
a plurality of first rim elements, said first rim elements each comprising a top wall fitting the curvature of the wheel rim of  
5 a vehicle wheel, a smoothly arched bottom wall reinforced with at least one reinforcing rib, a middle support connected between the top wall and bottom wall of the respective first rim element on the middle, and two end supports connected between the top wall and bottom wall of the respective first rim element at two distal ends,  
10 the end supports of said first rim element each having two outwardly protruding lugs;
- a second rim element, said second rim element comprising a top wall fitting the curvature of the wheel rim of a vehicle tire, a smoothly arched bottom wall reinforced with at least one reinforcing rib, a middle support connected between the top wall and bottom wall of said second rim element on the middle, a first end support connected between the top wall and bottom wall of said second rim element at one end, a second end support connected between the top wall and bottom wall of said second rim element at  
15 an opposite end, the first end support of said second rim element having two outwardly protruding lugs, the second end support of said second rim element having a countersunk screw hole and a tool hole;

a third rim element, said third rim element comprising a top wall fitting the curvature of the wheel rim of a vehicle tire, a smoothly arched bottom wall reinforced with at least one reinforcing rib, a middle support connected between the top wall

- 5 and bottom wall of said third rim element on the middle, a first end support connected between the top wall and bottom wall of said third rim element at one end, a second end support connected between the top wall and bottom wall of said third rim element at an opposite end, the first end support of said third rim element
- 10 having two outwardly protruding lugs, the second end support of said third rim element having a countersunk screw hole and a tool hole respectively disposed corresponding to the countersunk screw hole and tool hole of said second rim element, and two flanges disposed at two opposite lateral sides and adapted to support the
- 15 second end support of said second rim element on the second end support of said third rim element;

a plurality of links respectively fastened to the lugs of said first rim elements and the lugs of said second rim element and the lugs of said third rim element with pins to connect said first rim

- 20 elements in series between said second rim element and said third rim element; and

a screw bolt fastened to the countersunk screw hole of the second end support of said second rim element and the countersunk

screw hole of the second end support of said third rim element to secure the second end support of said second rim element to the second end support of said third rim element.